

## 32-2754: PSMB7 Recombinant Protein

**Alternative Name :** Proteasome subunit beta type-7,Macropain chain Z,Multicatalytic endopeptidase complex chain Z,Proteasome subunit Z,PSMB7,Z.

### Description

Source : Escherichia Coli. PSMB7 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 255 amino acids (44-277) and having a molecular mass of 27.6kDa (Molecular size on SDS-PAGE will appear higher).PSMB7 is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. Proteasome subunit beta type-7 (PSMB7) belongs to the proteasome B-type family. PSMB7 is a multicatalytic proteinase complex with an extremely ordered ring-shaped 20S core structure. This core structure is comprised of 4 rings of 28 non-identical subunits; 2 rings are comprised of 7 alpha subunits and 2 rings are comprised of 7 beta subunits. Proteasomes are scattered all over eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent manner in a non-lysosomal pathway. The processing of class I MHC peptides is a vital function of the immunoproteasome (which is a modified proteasome).

### Product Info

**Amount :** 5 µg  
**Purification :** Greater than 80.0% as determined by SDS-PAGE.  
**Content :** The PSMB7 solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 20% glycerol and 1mM DTT.  
**Storage condition :** Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.  
**Amino Acid :** MGSSHHHHHH SGLVPRGSH MTTIAGVVYK DGIVLGADTR ATEGMVVADK NCSKIHFI SP  
NIYCCGAGTA ADTDMTTQLI SSNLELHSL S TGRLPRVVTA NRMLKQMLFR YQGYIGAALV  
LGGVDVTGPH LYSIYPHGST DKLPYVTMGS GSLAAMAVFE DKFRPDMEEE EAKNLVSEAI  
AAGIFNDLGS GSNIDL CVIS KNKLDFLRPY TVPNKKGTRL GRYRCEKGT AVLTEKITPL  
EIEVLEETVQ TMDTS.

